Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A data storage management system comprising: a plurality of network-accessible storage devices capable of storing data, some of which are located at distinct network nodes;

a plurality of network-connected devices that access the networkaccessible storage devices via the network, wherein the plurality of networkconnected devices are located at distinct network nodes from the plurality of network-accessible devices:

a plurality of network-accessible devices configured to implement storage management processes wherein the storage management processes are distributed across the network-accessible devices such that failure or unavailability of any given instance of a storage management process will not impact the availability of stored data, wherein in the event of failure or unavailability of any given instance of the storage management process reconstruction can be implemented in parallel across multiple instances of storage management processes;

a communication system enabling the storage management processes to communicate with each other:

wherein the storage management processes comprise processes for storing data to the plurality of network-accessible devices; and wherein the processes for storing data comprise processes that implement a RAID-type distribution, wherein RAID-type distribution involves executing data write operations to both primary and mirror nodes, across the plurality of network-accessible devices such that write operations comprise writes to multiple network nodes and read operations comprise reads from multiple network nodes.

Claim 2 (canceled)

Claim 3 (Previously Presented): The data storage system of claim 1 wherein the storage management processes comprise processes for serving data from the plurality of network accessible storage devices.

Claim 4 (Previously Presented): The data storage system of claim 1 wherein the plurality of network accessible storage devices comprise a RAID storage system.

Claim 5 (Previously Presented): The data storage system of claim 1 wherein the plurality of network accessible storage devices comprise a computer with direct attached storage (DAS) selected from the group consisting of magnetic hard disk, magneto-optical, optical disk, digital optical tape, holographic storage, quantum storage, and atomic force probe storage.

Claim 6 (Previously Presented): The data storage system of claim 1 wherein the plurality of network-accessible storage devices comprise a peer-to-peer network of storage devices, each network-accessible storage device having means for communicating state information with other network-accessible storage devices, at least one network-accessible storage device comprising means for receiving storage requests from external entities, and at least one network-accessible storage device comprising means for causing read and write operations to be performed on others of the network-accessible storage devices.

Claim 7 (original): The data storage system of claim 1 wherein the communication system comprises a TCP/IP over Ethernet network.

Claim 8 (original): The data storage system of claim 1 wherein the communication system comprises Gigabit Ethernet network.

Claim 9 (original): The data storage system of claim 1 wherein the communication system comprises a Fibre Channel fabric.

Claim 10 (original): The data storage system of claim 1 wherein the communication system comprises a wireless network.

Claim 11 (canceled)

Claim 12 (Previously Presented): The data storage system of claim 1 wherein the processes for storing data comprise processes that implement an n-dimensional parity scheme for data elements across the plurality of network accessible storage devices.

Claim 13 (Previously Presented): The data storage system of claim 12 wherein the processes for storing parity data expand or contract a size of a parity group associated with each of the data elements associated with the n-dimensional parity scheme to whatever extent is desired.

Claim 14 (original): The data storage system of claim 12 wherein the storage management processes further comprise processes for recovery of data when one or more of the network-accessible storage devices is unavailable.

Claim 15 (original): The data storage system of claim 12 wherein the storage management processes further comprise processes for access to stored data when one or more of the network accessible storage devices are not desirable data sources for reasons including but not limited to efficiency, performance, network congestion, and security.

Claim 16 (original): The data storage system of claim 1 wherein the plurality of network-accessible devices configured to implement storage management processes further comprise commercial off-the-shelf computer systems implementing a common operating system.

Claim 17 (original): The data storage system of claim 1 wherein the plurality of network-accessible devices configured to implement storage management

processes further comprise commercial off-the-shelf computer systems implementing a heterogeneous set of operating systems.

Claim 18 (original): The data storage system of claim 1 wherein the storage management processes comprise processes for implementing greater than two dimensions of parity.

Claim 19 (Previously Presented): The data storage system of claim 1 wherein the processes for storing data comprise processes that store parity and/or mirror data across more than one of the plurality of network-accessible storage devices.

Claim 20 (Previously Presented): The data storage system of claim 1 wherein the storage management processes comprise processes for adding and removing additional storage capacity to individual network-accessible storage devices and the system as a whole.

Claim 21 (Currently Amended): A method of data storage management comprising the acts of:

providing a plurality of network-accessible storage devices capable of storing data, some of which are located at distinct network nodes;

providing a plurality of network-connected devices that access the network-accessible storage devices via the network, wherein the plurality of network-connected devices are located at distinct network nodes from the plurality of network-accessible storage devices;

implementing a plurality of storage management process instances wherein the storage management process instances are distributed across the network-accessible devices such that failure or unavailability of any given instance of a storage management process instance will not impact the availability of stored data, wherein in the event of failure or unavailability of any given instance of the storage management process reconstruction can be

implemented in parallel across multiple instances of storage management processes;

communicating storage messages between the storage management process instances;

storing data to the network-accessible devices under control of at least one instance of the storage management processes; and

implementing a peer-to-peer network between the plurality of networkaccessible storage devices;

communicating state information for the plurality of network-accessible storage devices between the plurality of network-accessible storage devices; and performing read and write operations using the plurality of storage devices

such that write operations comprise writes to multiple network nodes and read operations comprise reads from multiple network nodes.

Claim 22 (canceled)

Claim 23 (Previously Presented): The method of claim 21 further comprising serving data from the plurality of network accessible storage devices.

Claim 24 (Previously Presented): The method of claim 21 wherein the step of storing data to the plurality of network accessible storage devices comprises storing the data in a RAID-like fashion.

Claim 25 (canceled)

Claim 26 (Currently Amended): The method of claim 21 wherein the step of storing data comprises storing data using a RAID-type distribution across the plurality of network-accessible storage devices, wherein RAID-type distribution involves executing data write operations to both primary and mirror nodes.

Claim 27 (Previously Presented): The method of claim 21 wherein the act of storing data comprises storing parity and/or mirror data across more than one of the plurality of network-accessible storage devices.

Claim 28 (Previously Presented): The method of claim 21 wherein the storage management process instances further comprise processes for recovery of data when one or more of the plurality of network-accessible storage devices is unavailable.

Claims 29-32 (canceled)

Claim 33 (Currently Amended): A method of data storage management comprising the acts of:

providing a plurality of network-accessible storage devices each capable of storing data;

implementing a plurality of storage management process instances; communicating storage messages between the storage management process instances; and

identifying two or more storage devices at different network locations associated with the data to be stored;

determining parity data for the data to be stored;

storing the data and/or the parity data using a RAID-type distribution across the two or more storage devices, wherein RAID-type distribution involves executing data write operations to both primary and mirror nodes;

retrieving the stored data;

verifying the correctness of the stored data using the parity data; and upon detection of an error in the retrieved data, retrieving a correct version of the data using the parity data.

Claim 34 (original): The method of claim 33 wherein the parity data comprises an error checking and correcting code.

Claim 35 (Previously Presented): The method of claim 33 wherein the parity data comprises a mirror copy of the data to be stored.

Claim 36 (original): The method of claim 33 wherein the parity data is stored in a single network storage node and the unit of data is stored in two or more network storage nodes.

Claim 37 (original): The method of claim 33 wherein the parity data is distributed across multiple storage nodes.

Claim 38 (canceled)

Claim 39 (Previously Presented): The method of claim 33 further comprising: attempting to retrieve the stored data;

detecting unavailability of one of the two or more network storage nodes; and

in response to detecting unavailability, reconstructing a correct version of the data using the parity data.

Claim 40 (Previously Presented): The system of claim 33 wherein the act of storing the data comprises distributing non-identical but logically equivalent data in a storage node.

Claim 41 (Previously Presented): The system of claim 33 further comprising storing lossy equivalent data in a storage node.

Claim 42 (canceled)

Claim 43 (canceled)

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Claim 44 (Currently Amended): A method of data storage management comprising the acts of:

providing a plurality of network-accessible storage devices each capable of storing data;

implementing a plurality of storage management process instances; and communicating storage messages between the storage management process instances, wherein any of the storage management process instances is capable of storage allocation and deallocation across the plurality of networkaccessible storage devices;

wherein the storage management processes are configured to migrate data amongst the storage devices using the storage messages preemptively when a fault condition in at least one of the storage devices is determined by the storage management processes to be likely.

Claim 45 (original): The method of claim 44 wherein the storage allocation management processes are configured to use the storage messages to reconstruct data stored in a failed one of the storage devices.

Claim 46 (Previously Presented): The method of claim 44 wherein the storage management processes are configured to migrate data amongst the storage devices using the storage messages in response to a detected fault condition in at least one of the storage devices.

Claim 47 (canceled)

Claim 48 (original): The method of claim 44 wherein the plurality of storage devices comprises an arbitrarily large number of storage devices.

Claim 49 (original): The method of claim 44 further comprising: associating parity information with a data set; storing the parity information in at least some of the storage devices; and

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serving data requests corresponding to the data set by accessing the parity information associated with the data set.

Claim 50 (original): The method of claim 44 further comprising:

storing a data set in a plurality of the data storage devices using the storage management processes;

serving data requests corresponding to the data set by accessing the plurality of data storage devices in parallel.

Claim 51 (original): The method of claim 44 further comprising encrypting storage messages before communicating.

Claim 52 (Previously Presented): The method of claim 1, wherein the RAID-type distribution comprises managing redundancy operations across the plurality of network-accessible devices.

Claim 53 (Previously Presented): The method of claim 1, wherein the RAID-type distribution comprises one or more functionalities selected from the group consisting of data striping, data mirroring, parity data distribution, parity data mirroring, and data entry as N-separated secrets.

Claim 54 (Previously Presented): The method of claim 21, wherein the state information comprises access speed, transfer rate, network locality, physical locality, inter-connectedness, security, reliability, political domain, capacity, or cost.